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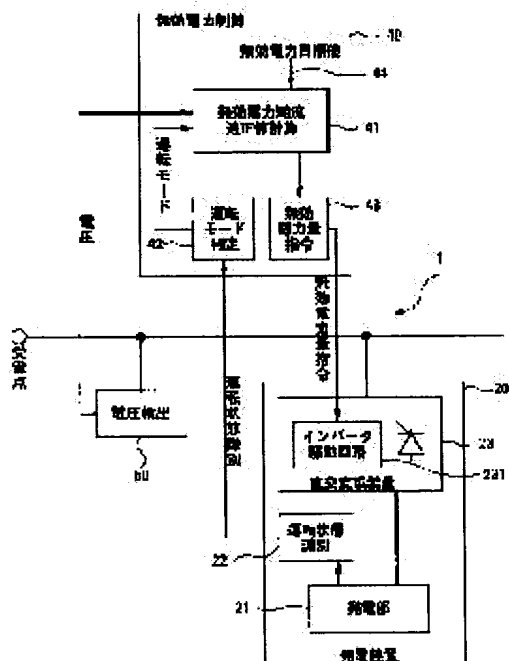
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(54) APPARATUS AND METHOD FOR CONTROLLING REACTIVE POWER



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a reactive power controller which is capable of reducing capital investment and maintenance cost by omitting the reactive power controllers installed at the premises of consumers or power systems.

SOLUTION: A reactive power controller, which controls the reactive power of a power system 1 interconnected with a power unit 20 is provided with a DC-AC converter having a reactive power control function, is provided with a voltage measuring means 50 which detects the system voltage or reactive voltage of the private power system of a consumer or a power system 1 for commercial power supply provided with the DC-AC inverter 23, an appropriate reactive power flow value calculating means 41, which receives the signal of the detecting means 50 and calculates the appropriate value of a reactive power flow, a reactive electric energy commanding means 43 which calculates and instructs an appropriate reactive power command value to the converter 23 upon receiving the calculated results of the calculating means 41, and an operation mode discriminating means 42 which discriminates the operation mode of the

converter 23 and controls the reactive power of the converter 23 based on the command from the reactive electrical energy commanding means 43.